

## CLAIMS

1. A method for preparing human or animal stem cells, characterized in that it consists essentially of:

- 5       - cell extraction;  
      - mechanical dissociation;  
      - enzymatic dissociation;  
      - maintaining of the cells obtained in a specific culture medium for preserving the diversity and  
10       plasticity,  
said method excluding cell culture.

2. The method as claimed in claim 1, characterized in that said specific culture medium comprises at least:

- 15       a) a nutritive medium;  
      b) a protective factor;  
      c) hormones;  
      d) differentiation inhibiting factors.

20 3. The method for preparing stem cells as claimed in any one of claims 1 and 2, characterized in that said stem cells are animal or human stem cells chosen from the group consisting of progenitor stem cells for a tissue.

25 4. The method as claimed in claim 3, characterized in that the tissue is chosen from the group consisting of skin, liver, heart, bone and nerve tissues.

30 5. The use of the human or animal stem cells obtained according to the method of any one of claims 1 to 4, for preparing a medicinal product intended for the treatment of diseases by cell therapy or gene therapy.

35 6. A stem cell obtained according to the method of any one of claims 1 to 4.

7. A method of treatment comprising a step consisting in implanting autologous or heterologous animal stem cells obtained according to the method of any one of claims 1 to 4, in an animal.
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8. A cell composition comprising human or animal stem cells obtained according to the method of any one of claims 1 to 4.
- 10 9. The composition as claimed in claim 8, characterized in that the stem cells have the ability to colonize and the ability to allow functional recovery.